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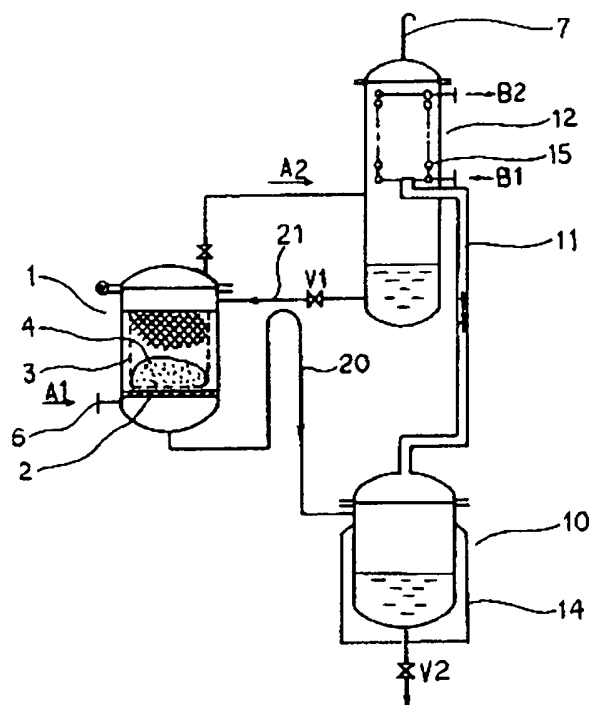
APPLICATION DATE : 24-02-86
APPLICATION NUMBER : 61037471

APPLICANT : KAWASAKI HEAVY IND LTD;

INVENTOR : OMORI KAZUKI;

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TITLE : APPARATUS FOR TREATING
OIL-CONTAINING SLUDGE



ABSTRACT : PURPOSE: To recover the oil component contained in sludge as liquid fuel at the same time when the sludge is formed into a powder containing no oil component, by three-dimensionally arranging a condensation tank, an extraction tank and an evaporation tank and performing the extracting operation of oil-containing sludge through the filter cloth in the extraction tank.

CONSTITUTION: The oil-containing sludge charged in an extraction tank 1 is treated using a low b.p. solvent to extract the oil component in the sludge and the obtained oil-containing solvent is transferred to an evaporation tank 10 by a siphon pipe 20 to evaporate the solvent component under heating while the generated solvent vapor is guided to a condensation tank 12 to be condensed under cooling and the condensate is returned to the extraction tank 1 to be recirculated in order to be again utilized in the extraction of the oil component. This extracting operation cycle is repeated until the residual oil component of the sludge reaches a predetermined value or less and, when this point of time arrives, the solvent in the condensation tank 12 is not returned to the extraction tank 1 but stored in the condensation tank 12 as it is and distillation operation is continued in this state until the solvent in oil in the evaporation tank 10 is lost. By this method, sludge of which the oil content is a predetermined amount or less and a liquid residue comprising the oil component containing almost no solvent are obtained from the oil-containing sludge.

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